

**LUCENT TECHNOLOGIES, INC.
(WESTERN ELECTRIC)
Passaic River Study Area
Evidence Summary
Submitted by Chemical Land Holdings, Inc.
June 11, 1997**

853850001

Lucent Technologies (Western Electric)

A. Discharge of Plaintiff's...

- CCP has previously submitted to the Region a May 14, 1994, affidavit from Danny Smith, a former employee who worked at the site, claiming inspection records for Electric Company show a continuous flow of rain from 1932 until 1960. Smith said that Mr. Parol indicated that he had no knowledge of any pits, canyons and storm flows at the site. Smith said facilities and firm that increased total of six outfalls in 1960. Outfall #1 (overhead cooling water drain for electric motor) was added. Outfalls #2, #3, #4, #5, and #6 were storm water outfalls. Outfall #7 was added to discharge industrial waste water. In 1962, outfall #8 was added to discharge industrial waste water. (See Appendix A.)
- In 1963, the Electric Company's 104th Street facility was expanded to include the building of the former Western Electric facility that show the storm drain building 170 as well as a new building, the old building. (See Appendix B.)

B. Hazardous Substances with Effect on the Environment

- In its February 28, 1964 report to the President, the Commission, in response to the request, referred to by the Executive Order, stated that the following compounds are known to be present in the air in the vicinity of the plant: benzene, toluene, ethylbenzene, styrene, xylene, m-xylene, p-xylene, o-xylene, m-cresol, p-cresol, o-cresol, and cumene. The Commission also stated that the following compounds are known to be present in the air in the vicinity of the plant: benzene, toluene, ethylbenzene, styrene, xylene, m-xylene, p-xylene, o-xylene, m-cresol, p-cresol, o-cresol, and cumene. The Commission also stated that the following compounds are known to be present in the air in the vicinity of the plant: benzene, toluene, ethylbenzene, styrene, xylene, m-xylene, p-xylene, o-xylene, m-cresol, p-cresol, o-cresol, and cumene.
- Other hazardous substances which the Commission stated are known to be present in the air in the vicinity of the plant are: benzene, toluene, ethylbenzene, styrene, xylene, m-xylene, p-xylene, o-xylene, m-cresol, p-cresol, o-cresol, and cumene. The Commission also stated that the following compounds are known to be present in the air in the vicinity of the plant: benzene, toluene, ethylbenzene, styrene, xylene, m-xylene, p-xylene, o-xylene, m-cresol, p-cresol, o-cresol, and cumene.

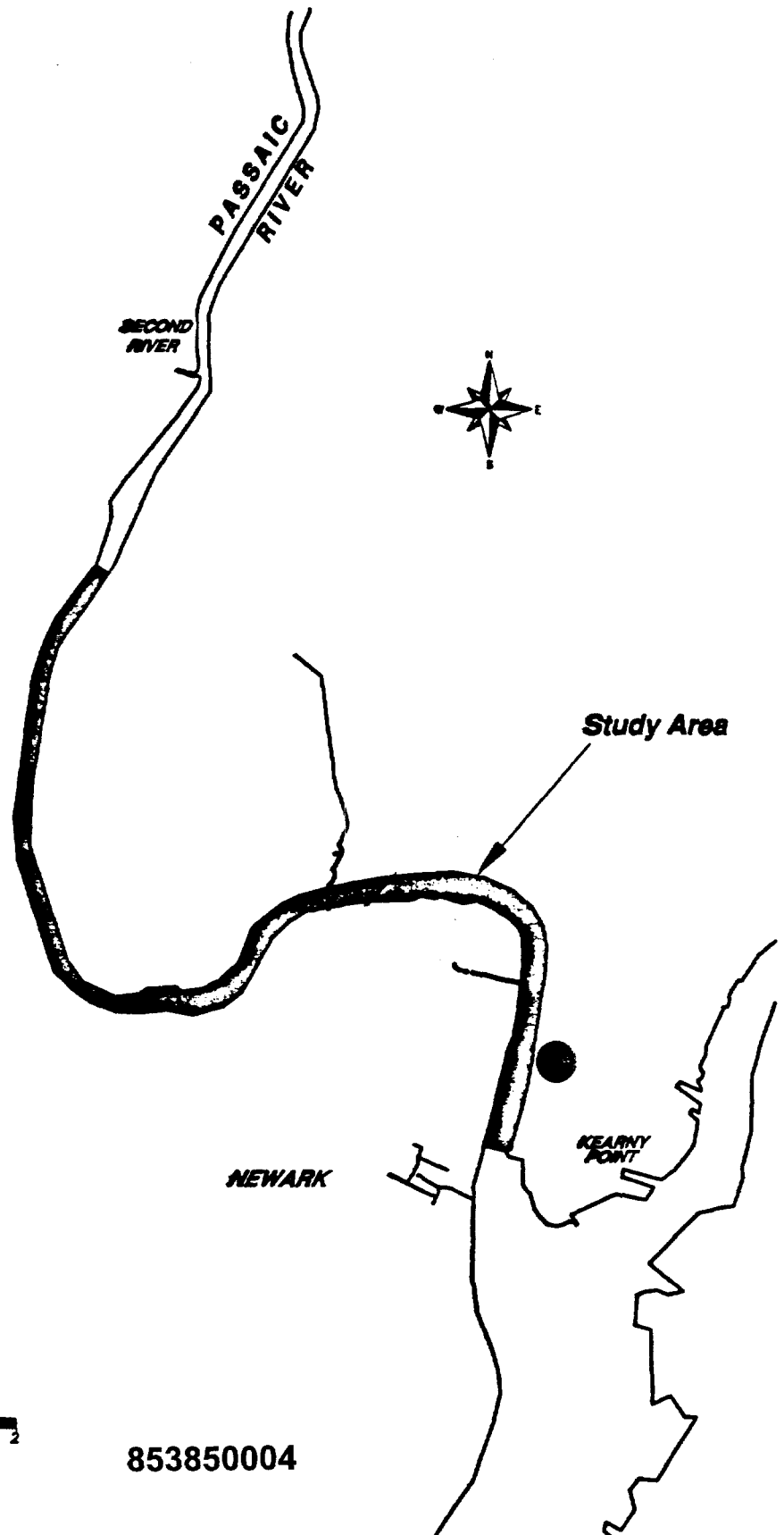
C. Hazardous Substances Used On-Site have Impacted River Sediments:

- As part of the Environmental Protection Agency's (EPA) ongoing research on the health effects of air pollution, the Agency has been studying the effects of particulate matter (PM) on human health. This study was conducted in the Los Angeles area, where air pollution is a major public health concern. The study involved a cohort of subjects who were exposed to high levels of PM in the Los Angeles area. The subjects were followed over a period of several years, and their health status was monitored. The study found that exposure to high levels of PM was associated with an increased risk of respiratory and cardiovascular disease. The study also found that exposure to high levels of PM was associated with an increased risk of premature death. The results of this study are consistent with other research that has shown that air pollution is a major cause of premature death and disability. The study has important implications for public health policy, and it highlights the need for continued research on the health effects of air pollution.

D. Responsible Corporate Entity:

- According to Lucent Technologies' 104(e) response, Western Electric Company, Inc., changed its name to AT&T Technologies, Inc. on January 3, 1984, and was subsequently merged into American Telephone and Telegraph Company on December 29, 1989. American Telephone and Telegraph Company then changed its name to AT&T Corp. on April 20, 1994. Lucent Technologies Services Company was a subsidiary of AT&T Corp. that was transferred to Lucent Technologies, Inc. on February 1, 1996.
- Correspondence should be sent to: Lucent Technologies, Inc.
131 Morristown Road
Basking Ridge, NJ 07940

Western Electric



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A

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05/20/96 Affidavit of Daniel Bartel

- Discusses product lines manufactured at facility and building plumbing systems and discharge mechanism to Passaic

AFFIDAVIT OF DANIEL BARTEL

**STATE OF NEW JERSEY §
 §
COUNTY OF BERGEN §**

Daniel Bartel upon his oath deposes and says:

1. I, Daniel Bartel, am a former employee of the Western Electric Company ("Western Electric") facility formerly located at 100 Central Avenue, Kearny, NJ. I was employed at the Western Electric facility during the period 1952 to 1985. During this time I held the position of plumber and inspector and had the opportunity to work in a number of areas within the facility.

2. Some of the products manufactured at the Western Electric facility included: cables (insulated with lead and polyethylene), telephone switch boards, copper wire, and transformers. The transformers were manufactured at the facility for approximately twenty five (25) years. The Western Electric facility also utilized plating operations. The plating operations were originally performed in buildings #170 and ^{#32}~~#30~~ but were subsequently moved to building #185 upon completion of Western Electric's waste water treatment plant circa 1973.

3. Because of my position as a plumber I become very knowledgeable of the sanitary and storm sewers at the Western Electric facility. The outfalls identified on the attached map as #001, #002, #003, #004, #005 and #006 all discharged to the Passaic River. Outfall #001 was a cooling water drain for the facility power plant condenser. Outfalls #003, #004, #005, and #006 were storm sewer drains. Outfall #002 was used to discharge treated waste water that was being generated from the facility waste water treatment plant.

4. Prior to the waste water treatment plant coming on line at the Western Electric facility all process waste water generated from the plating operations within buildings #170 and

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~~#30~~ ^{#32}

~~#30~~ were treated and discharged to the Passaic River through the storm sewers. I did not know how this plating waste water was treated.

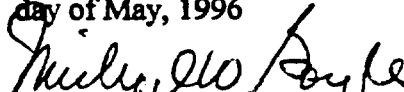
5. I have marked upon the enclosed map the approximate locations where waste lines from building #170 and ~~#30~~ ^{#32} were connected to facility storm sewer lines.

6. There were two drains located within the drum storage area which was located at the southern end of the facility. These two drains discharged to the Passaic River through the facility's storm sewers. I have marked upon the enclosed map the location of this drum storage area.

7. On occasions the Western Electric facility would flood. The flooding which was caused by the combination of heavy rains and the high tides from the Passaic River would back up the facility storm sewers.


Daniel Bartel

Sworn to before me this 20
day of May, 1996



State Of New Jersey
Notary Public Commission

Michael W. Boyle

My Commission Expires 10/31/00

Notary ID# 2038395

853850008

④ Storage Area

5-20-96



B

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Plot Plan of Storm Water Mains, Western Electric Company, Inc.

- Documents that floor drains from Building 170 and sumps from other buildings discharge to Passaic River

THIS MAP CAN BE FOUND IN THE SITE FILE LOCATED AT: U.S. EPA SUPERFUND RECORDS
CENTER, 290 BROADWAY, 18TH FLOOR, NY, NY 10007

PLOT PLAN OF STORM WATER MAINS

DRAWN
BY

H.G. Smith

APPROVALS

APPROVALS

CHECKED
BY

WESTERN ELECTRIC COMPANY, INC.
ENGINEER OF MANUFACTURE

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C

853850013

05/1984 Environmental Evaluation Measurement Plan - Kearny Works - AT&T Technologies

- Documents hazardous substance storage/usage at AT&T's Kearny Works

ENVIRONMENTAL EVALUATION MEASUREMENT PLAN
KEARNY WORKS
AT&T TECHNOLOGIES, INC.
(Formerly Western Electric Company)

ERT DOCUMENT No. D231

May 1984

Prepared for
AT&T Technologies, Inc.
New York, New York

Prepared by
Dr. William A. Duvel, Jr., P.E.

ENVIRONMENTAL RESEARCH & TECHNOLOGY, INC.
696 Virginia Road, Concord, Massachusetts 01742

June 6, 1984

Sampling Pk

853850015

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APPENDIX B	
CONSTRUCTION DETAILS FOR FOUNDATIONS AT THE KEARNY WORKS	

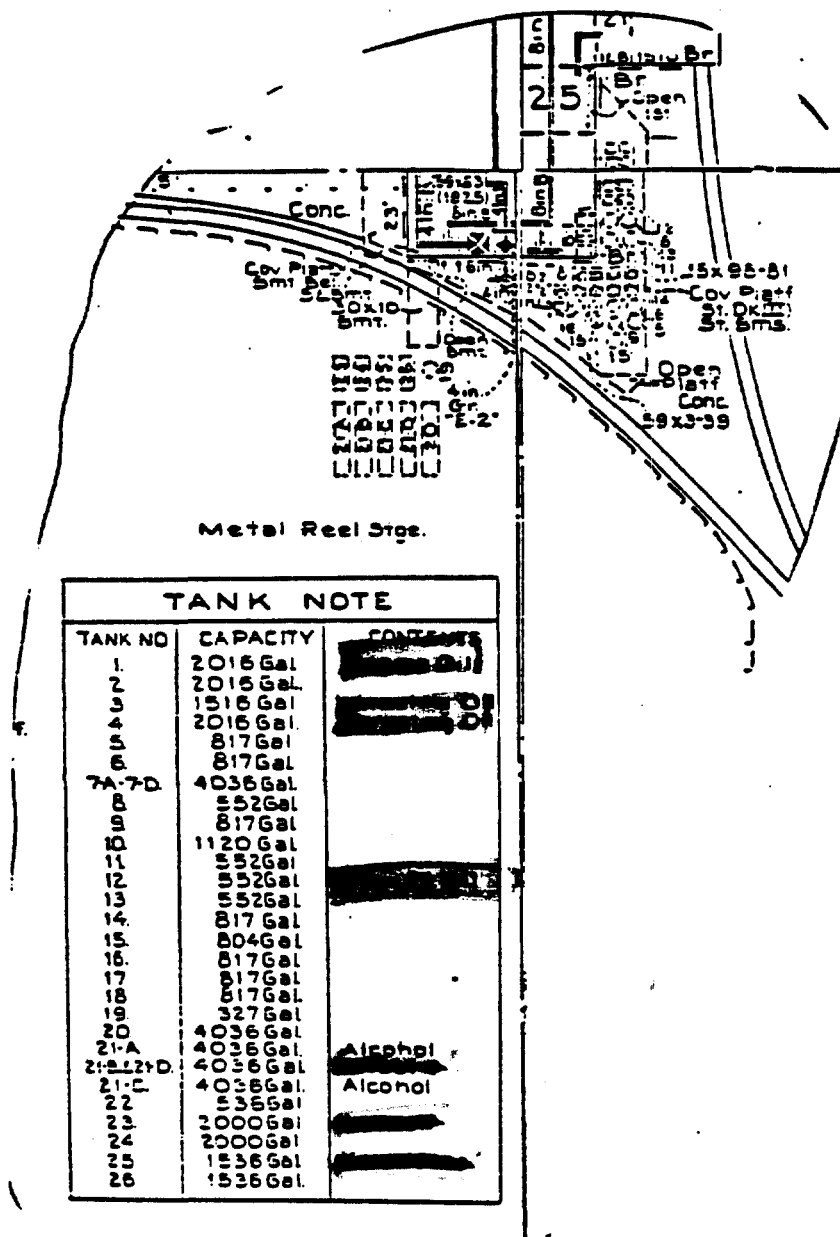


Figure 3-1 Location and former contents of underground storage tanks in vicinity of Building 25

Undated Kearny Fire Department Document

- Lists chemicals used in former Western Electric plating processes

CHEMICALS USED IN METAL FINISHING AT W.E. - KEARNY

Chromium Plating

Chromium Trioxide
Sulfuric Acid
Mist Suppressant

Copper Plating

Copper Cyanide
Sodium Cyanide
Sodium Hydroxide
Rochelle Salts
Sodium Carbonate

Nickel Plating

Nickel Sulfate
Nickel Chloride
Boric Acid
Sodium Chloride

Solder Plating

Tin Fluoborate
Lead Fluoborate
Fluoboric Acid
Boric Acid
Peptone

Zinc Plating

Zinc Cyanide
Sodium Cyanide
Sodium Hydroxide
Sodium Polysulfide
Brightener

Gold Plating

Potassium Gold Cyanide
Potassium Cyanide
Potassium Hydroxide
Dibasic Ammonium Citrate
Cobalt hardened
proprietary solutions.

Silver Plating

~~Potassium Cyanide~~
Potassium Cyanide

Passivating

Sodium Dichromate
Sulfuric Acid
Nitric Acid

Pickling Acids

Hydrochloric
Nitric
Sulfuric

Cleaners

Proprietary Compounds
containing 85-95% caustic caustic

Phosphating

Proprietary compound
containing phosphoric
acid.

A. V. SIAMELESKI - 93710

853850019

AT&T Initial ECRA Notice Submission Dated February 6, 1984 and Environmental Measurement Plan for AT&T Kearny Works Dated May 1984

- Establishes site ownership and provides hazardous substance inventory

Rec'd

29 FEB 1984



AT&T

Technology Systems

R. B. BUTTERFIELD, JR.
General Manager
Kearny Works

100 Central Avenue
Kearny, N. J. 07032
201 465-4001

February 6, 1984

ECRA OFFICE
Division of Waste Management
New Jersey Department of Environmental Protection
CN-028
Trenton, New Jersey 08625

Attention: Initial ECRA Notice Submission

Gentlemen:

Re: Initial Notice Required by the Interim Environmental
Cleanup Responsibility Act Regulations, N.J.A.C. 7:13

Pursuant to the subject Regulations, we submit the enclosed written Notice of the decision to cease operations at the Kearny Works location of A.T.&T. Technologies, Inc., formerly Western Electric Co., Inc.

The original public notice to close was published prior to the passage of the Environmental Cleanup and Responsibility Act (ECRA). To comply with ECRA, a letter of notification was sent to Mr. Joe Schmidt of the Office of Regulatory Services on December 7, 1983. A copy is attached.

Kearny Works is a large location with diverse operations. The closure will proceed gradually over a period of several years. Some materials, whose disposal is proposed in the Notice, may ultimately remain on the site under the terms of sale for the property. Any environmental cleanup plan must therefore be flexible with respect to timing and details.

To the best of our knowledge, the attached Notice is a thorough and accurate representation.

Very truly yours,

Att.

853850021

WRITTEN NOTICE OF DECISION TO CLOSE OPERATIONS
FOR THE
KEARNY WORKS LOCATION
OF
A.T.&T. TECHNOLOGIES, INC.
(FORMERLY WESTERN ELECTRIC CO., INC.)

853850022

Index

1. Ownership
2. Site Maps
3. Description of Operations
4. Storage Facilities
5. Prior Operations
6. Hazardous Substance Inventory
7. Spill History
8. Sampling Plan
9. Decontamination, Decommission and Disposal
10. Environmental Permits
11. Violations
12. Publicized Closure Date and Announcement
13. Date of Sale Agreement or Purchase Option,
Identity of Buyer, Copy of Agreement, If
Applicable
14. Date of Closure or Transfer, If Applicable
15. Location Contact
16. Sampling Results
17. Other Information

6. HAZARDOUS SUBSTANCE INVENTORY

1. The following operations have small quantities of the substances listed:

<u>Item</u>	<u>Location*</u>	<u>Shop</u>	<u>Material</u>
1. Degreaser, Open Tank, Vapor	71-7,S-21	Jack Shop	Chlorofluorocarbon
2. Mass Solderer	71-6,S-23	Back Plane	Flux
3. Degreaser, Open Tank, Vapor	71-6,S-22	Back Plane	Chlorofluorocarbon
4. Degreaser Open Tank, Cold	71-4,R-17E	Tool Const.	Varsol
Degreaser Open Tank, Cold	71-4,R-17W	Tool Const.	Varsol
5. Mass Solder & Cleaner	71-2,X-20	K.E.	Chlorofluorocarbon
6. Barrier Coating	71-2,P-25	Mini Relay	Chlorofluorocarbon
Barrier Coating Cleaning	71-2,P-25	Mini Relay	Chlorofluorocarbon
7. Mass Solderer & Cleaner	71-1,X-26	TB-40	Trichloroethylene
8. Finger Cleaning	71-1,X-26	TB-40	Trichloroethylene
9. Finger Cleaning	71-1,X-23	TB-40	Trichloroethylene
10. Finger Cleaning	71-1,X-18	Model Shop	Trichloroethylene
11. Lacquer Spray	73-1S,C-10	TB-20	Lacquer and Thinner
12. Mass Solderer & Aqu. Clean.	73-1S,D-10	TB-20	Flux and Cleaner
13. Finger Cleaning	73-1S,D-10	TB-20	Trichloroethylene
14. Coil Varnish Tank 1, East	73-1 NE	Coil	Water Reducible Varnish
2	73-1 NE	Coil	Water Reducible Varnish
3	73-1 NE	Coil	Water Reducible Varnish
4, West	73-1 NE	Coil	Water Reducible Varnish
16. Coil Varnish Autosoak	73-1 NE	Coil	Water Reducible Varnish
17. Coil Epoxy Degreaser	73-1 NE	Coil	Chlorofluorocarbon
20. Construction Paint Spray	85-1	Const.	Paints
21. Cross Bar Degreaser	171-S	Piece Part	Trichloroethylene
22. Spray Booths South	185-1S	Met.Fin.	Paints and Sludge
23. Spray Booths North	185-1N	Met.Fin.	Paints and Sludge
24. Degreaser, Open Tank, Cold, So.	Garage	Garage	Varsol
Degreaser, Open Tank, Cold, W.	Garage	Garage	Varsol

See Decontamination, Decommission and Disposal actions outlined in Section 9 of the Notice, Procedure No. 5.

* Building-Floor-Column Number

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